F.H.W.A. REGION NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
3	MD.		1	46

INDEX OF SHEETS

⚠1 ADDENDUM NO. 1 SHEET NOS. 1, 6, 10 & 25

⚠3 ADDENDUM NO. 3 SHEET NOS. 1 & 15

[1] REDLINE REVISION NO. 1 SHEET NOS. 1, 41, & 42

ABBREVIATIONS

BK.	-	BACK	P/GL	-	PROFILE GROUND LINE
C.M.P.	-	CORRUGATED METAL PIPE	P.I.	-	POINT OF INTERSECTION
CORR.	-	CORRECTION (V.C.)	P/R	-	POINT OF ROTATION
C.Y.	-	CUBIC YARDS	P.P.C.C.	-	PLAIN PORTLAND CEMENT CONCRETE
Dc	-	DEGREE OF CURVE	P.R.C.	-	POINT OF REVERSE CURVATURE
DELTA	-	CENTRAL ANGLE (CURVE DATA)	P.T.	-	POINT OF TANGENT
E	-	EXTERNAL DISTANCE (CURVE DATA)	P.V.C.	-	POINT OF VERTICAL CURVE
EA.	-	EACH	P.V.C.C.	-	POINT OF VERTICAL COMPOUND CURVE
E.B.R.	-	EAST BOUND ROADWAY	P.V.I.	-	POINT OF VERTICAL INTERSECTION
ELEV.	-	ELEVATION	P.V.R.C.	-	POINT OF VERTICAL REVERSE CURVE
H.P.	-	HIGH POINT	PVT.	-	PAVEMENT
INV.	-	INVERT	P.V.T.	-	POINT OF VERTICAL TANGENCY
L	-	LENGTH OF CURVE (CURVE DATA)	R	-	RADIUS (CURVE DATA)
L.F.	-	LINEAR FEET	R.C.C.P.	-	REINFORCED CEMENT CONCRETE PIPE
L.P.	-	LOW POINT	RT.	-	RIGHT
LT.	-	LEFT	R/W	-	RIGHT OF WAY
LVC	-	LENGTH OF VERTICAL CURVE	SDWK.	-	SIDEWALK
MAX.	-	MAXIMUM	SE	-	SUPERELEVATION
MD	-	MARYLAND	S.F.	-	SQUARE FEET
MIN.	-	MINIMUM	S.Y.	-	SQUARE YARDS
MOD.	-	MODIFIED	STA.	-	STATION
N.D.C.	-	NOSE DOWN CURB	STD.	-	STANDARD
NORM.	-	NORMAL	S.S.D.	-	STOPPING SIGHT DISTANCE
P/C	-	POINT OF CROWN	T	-	TANGENT (CURVE DATA)
P.C.	-	POINT OF CURVATURE	T.C.	-	TOP OF CURB
P.C.C.	-	POINT OF COMPOUND CURVATURE	V.C.	-	VERTICAL CURVE
P/GE	-	PROFILE GRADE ELEVATION	W.B.R.	-	WEST BOUND ROADWAY
P.G.L.	-	PROFILE GRADE LINE			

CONVENTIONAL SIGNS

PROPOSED MEDIAN BARRIER
ELECTRICAL HAND BOX - SIGNALS (H.B.)
BURIED UTILITY LINES & NO. OF CABLES (4)
STATE, COUNTY OR CITY LINES
PROPOSED TRAFFIC BARRIER
EXISTING TRAFFIC BARRIER
FENCE LINE
RIGHT OF WAY LINE
EXISTING ROADWAY
RAILROAD
BASE OR SURVEY LINE (3 +50 32)
FIRE HYDRANT

PROPOSED CULVERT
EXISTING CULVERT
EXISTING DROP INLET
UTILITY POLE
MARSH
HEDGE
GROUND ELEVATION (DATUM LINE 115.4)
GRADE ELEVATION (DATUM LINE 203.2)

Maryland Department of Transportation

STATE HIGHWAY ADMINISTRATION

PLANS OF PROPOSED HIGHWAY

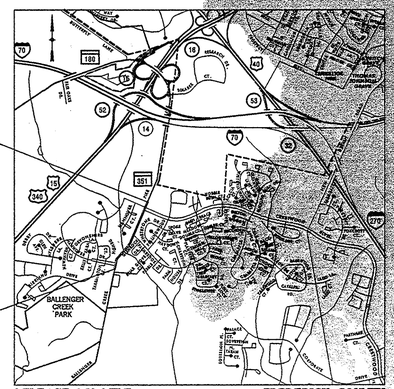
S.H.A. CONTRACT NO. FR3465179

FEDERAL AID PROJECT NO. AC-STP-G-104-1(10)E

MARYLAND 351 FROM NORTH OF BALLENGER CREEK MIDDLE SCHOOL TO CRESTWOOD BLVD.

LIMIT OF WORK
CONTRACT NO. FR3465179
MD 351
CRESTWOOD BLVD.
STA. 70+75

LIMIT OF WORK
CONTRACT NO. FR3465179
MD 351
NORTH OF BALLENGER
CREEK MIDDLE SCHOOL
STA. 43+00



MILEAGE: 0.53 MILE

FREDERICK COUNTY

LOCATION MAP

SCALE: 1" = 2000'

1000' 0 1000' 2000'

HORIZONTAL DATUM	NAD 83/91
VERTICAL DATUM	NAVD 88

DESIGN DESIGNATION

CONTROLS / YEARS	1998	2020
AVERAGE DAILY TRAFFIC (A.D.T.)	12,400	23,000
DESIGN HOURLY VOLUME (D.H.V.)	9%	9%
DIRECTIONAL DISTRIBUTION	54%	54%
% TRUCKS - A.D.T.	6%	6%
% TRUCKS - D.H.V.	3%	3%
DESIGN SPEED	40 m.p.h.	
FUNCTIONAL CLASSIFICATION	COLLECTOR	
CONTROL OF ACCESS	NONE	
INTENSITY OF DEVELOPMENT	SUBURBAN	
TERRAIN	ROLLING	
ANTICIPATED POSTED SPEED	40 m.p.h.	

SOILS LEGEND

A-4-7, CLAYEY SILT

A-7, CLAY

PLAN LOCATION OF SOIL BORING

PLAN LOCATION OF STORM WATER MANAGEMENT BORINGS

PLAN LOCATION OF FOUNDATION BORINGS

BORING TARGETS & PROFILES
SCALE: HORIZONTAL - NONE
VERTICAL- 1"=5'

M.D.D.- MAXIMUM DRY DENSITY
P.C.F.- POUNDS PER CUBIC FOOT
O.M.C.- OPTIMUM MOISTURE CONTENT

L.L.- LIQUID LIMIT
N.P.- NON-PLASTIC
P.I.- PLASTICITY INDEX

M.D.D. & O.M.C. PER A.A.S.H.T.O. DESIGNATION T 180, METHOD 'C'

UNLESS OTHERWISE NOTED ON PLANS, ALL SOIL SURVEY BORINGS FOR ROADWAY CONSTRUCTION WERE LEFT OPEN FOR 24 HOURS WITH NO EXCESS MOISTURE OR FREE WATER ENCOUNTERED DURING TIME OF SOIL SURVEY.

R-O-W PLAT NUMBERS	SURVEY BOOK NUMBERS
55700	13149
	25220
	13860

REVISIONS
⚠1 ADDENDUM NO. 1 01/10/02
⚠3 ADDENDUM NO. 3 01/24/02
[1] REDLINE REVISION NO. 1 - 05/30/03

STANDARD SPECIFICATIONS BOOK, BOOK OF STANDARDS AND MUTCD

ALL WORK ON THIS PROJECT SHALL CONFORM TO: THE MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION'S SPECIFICATIONS ENTITLED STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS DATED OCTOBER 1993 AND THE COMPANION MANUAL ENTITLED GENERAL PROVISIONS FOR CONSTRUCTION CONTRACTS, REVISIONS THEREOF OR ADDITIONS THERETO; THE SPECIAL PROVISIONS INCLUDED IN THE INVITATION FOR BIDS BOOK; THE ADMINISTRATIONS BOOK OF STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES AND THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

RIGHT OF WAY

RIGHT OF WAY AND EASEMENT LINES SHOWN ON THESE PLANS ARE FOR ASSISTANCE IN INTERPRETING THE PLANS. THEY ARE NOT OFFICIAL. FOR OFFICIAL FEE RIGHT OF WAY AND EASEMENT INFORMATION, SEE APPROPRIATE RIGHT OF WAY PLATS.

UTILITIES

THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO GUARANTEE IS MADE OF THE ACCURACY OF SAID LOCATIONS.

ELDERLY AND HANDICAPPED FACILITIES

THE DESIGN OF THIS PROFECT HAS INCORPORATED FACILITIES FOR THE ELDERLY AND HANDICAPPED IN COMPLIANCE WITH THE STATE AND FEDERAL LEGISLATION.

ENVIRONMENTAL INFORMATION

MDE NO. 01-SF-0396

ALL STORMWATER MANAGEMENT FACILITIES CONSTRUCTED FOR CONTRACT NO.FR3465179 SHALL BE INSPECTED BIANNUALLY WITH MAINTENANCE PROVIDED WHEN REQUIRED.

SEDIMENT AND EROSION CONTROL REGULATIONS WILL BE STRICTLY ENFORCED DURING CONSTRUCTION.

OWNERS / DEVELOPERS CERTIFICATION :

I / WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

I HEREBY AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY STATE OF MARYLAND, DEPARTMENT OF THE ENVIRONMENT, COMPLIANCE INSPECTORS.

STANDARD STABILIZATION NOTE :

"FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN (7) CALENDER DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1), AND FOURTEEN DAYS (14) AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE."

COMPLETENESS OF DOCUMENTS

THE STATE HIGHWAY ADMINISTRATION SHALL ONLY BE RESPONSIBLE FOR THE COMPLETENESS OF DOCUMENTS OBTAINED DIRECTLY FROM THE STATE HIGHWAY ADMINISTRATION'S CASHIER'S OFFICE. FAILURE TO ATTACH ADDENDA MAY CAUSE THE BID TO BE IRREGULAR.

REVIEWED AND APPROVAL RECOMMENDED
Veerama Chunduru 12/7/01
CHIEF, HIGHWAY HYDRAULICS DIVISION

APPROVAL RECOMMENDED
Kirk G. McCall 12/7/01
DIRECTOR, OFFICE OF HIGHWAY DEVELOPMENT

APPROVED
Neil J. Pedersen 12/7/01
DEPUTY ADMINISTRATOR FOR PLANNING AND ENGINEERING

STATE OF MARYLAND
JAMES O. MONTGOMERY
No. 9234
REGISTERED
PROFESSIONAL ENGINEER

James O. Montgomery 12/7/01
JAMES O. MONTGOMERY, P.E. DATE

WALLACE, MONTGOMERY & ASSOCIATES
CIVIL AND STRUCTURAL ENGINEERS
110 WEST ROAD
TOWSON, MARYLAND 21204